

9-275-I	10/12/2005	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	57
Station Number 05551540		Acoustic Profiler Discharge Measurement Notes				Processed by	BLL
						Checked by	KA0
Station Name Fox River at Montgomery, IL							
Date July 6, 2004		Party B.L. Loving, S.E. Anderson					
Width 235	Area / Rated Area 707	Velocity 1.90	Index Vel.	Gage Height 11.74	Discharge 1,340		
Boat/Motors Used OceanScience Tethered		GPS Used Trimble AgGPS		ADCP Depth 0.27 ft	Gage Height Change 0.00 in 0.4 hrs.		
ADCP Mfr RDI	ADCP Model Rio Grande	Frequency 1200	Serial No. 1636	Firmware 10.14	Software WinRiver 10.06		
Filename Prefix foxmon_ds1200_		Diagnostic Test - Errors? <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N		Moving Bed File 000r	Moving Bed? Y or <input type="checkbox"/> N		
ADCP Sync'd to WT <input type="checkbox"/> Y at 1207 or <input type="checkbox"/> N	Meas. Water Temp 26.5 °F <input type="checkbox"/> C at 1210	ADCP Water Temp 26 °F <input type="checkbox"/> C at 1210		Weather Sunny and clear			
Compass Calibration <input type="checkbox"/> Y or <input type="checkbox"/> N	MagVar Used -2.4	MagVar Method On-site <input type="checkbox"/> Model <input type="checkbox"/> Previous		Wind Speed / Dir Southerly @ 5-10 mph			
Gage Readings						Site Conditions	
Time			ETG	CR10	Inside	Outside	
1100			11.74	11.70		11.70	Max Water Depth 10 ft
1230				11.70		±0.05	Max Water Speed 2.5 ft/s
1249	(S)			11.70			Max Boat Speed 1 ft/s
1300				11.70			Water Mode 12
1315	(F)			11.70			Bottom Mode 5
							Streambed material
							Gravel
1400			11.74	11.70		11.70	Salinity
						±0.05	----- ppt at ----
Weighted MGH		11.74					Checkbar found 22.41
GH corrections							Checkbar changed to:
Correct MGH		11.74					----- at ----
Wading <input type="checkbox"/> cable, ice, boat, upstr., downstr., side bridge				1500	ft., mi. upstr. <input type="checkbox"/> downstr. <input type="checkbox"/> of gage		
Measurement rated:		excellent (2%), <input type="checkbox"/> good (5%), fair (8%), poor (>8%)				based on following conditions	
Flow	Steady & uniform. Flow at edges appears to be moving in DS direction						
Cross section:	Sand and Gravel with some mud						
Control:	Dam is clear of debris						
Gage operating:	<input type="checkbox"/> Y or <input type="checkbox"/> N	Record removed:	<input type="checkbox"/> Y or <input type="checkbox"/> N	Filename:	Telephone telemetry		
Battery voltage	12.5 V		Intakes/Orifice cleaned/purged:		No		
Bubble-gage psi:	Tank	---	Line	---	Bubble rate	----- / min	
Extreme-GH indicators:	Max	---	Min	---	CSG Checked	<input type="checkbox"/> Y or <input type="checkbox"/> N	
HWM on stick	None		Ref elev.	12.65		HWM elevation	None
GH of zero flow = GH	---	- depth at control	---	=	---	ft, Rated=	10.48
Sheet No.				1	of	1	sheets